

***Merging Logistics and Acquisition
at the OSD Level***

NDIA Systems Engineering Conference

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Topics

- **Rumsfeld Remarks at ALE Kickoff**
- **Logistics ~~Reengineering Reinvention Reform~~
~~Transformation~~ Excellence**
 - **Performance Based Logistics (PBL)**
 - **Program Manager Responsibility/Accountability**
 - **Increased OSD oversight role**
- **Quadrennial Defense Review (QDR)**
- **Logistics Workforce**

SecDef Acquisition and Logistics Excellence Remarks, 10 Sep 01

- **Focus on the adversary that poses a threat, central planning, crushes free thought....**
- **...The adversary is the Pentagon bureaucracy**
 - **Uniformity of thought**
 - **Duplication of duties**
 - **Gridlock**
 - **Institutional inertia**
- **War on bureaucracy; not people, but processes**
- **The Pentagon needs to be liberated**
- **Shift \$\$ from bureaucracy to the battlefield (from tail to tooth)**

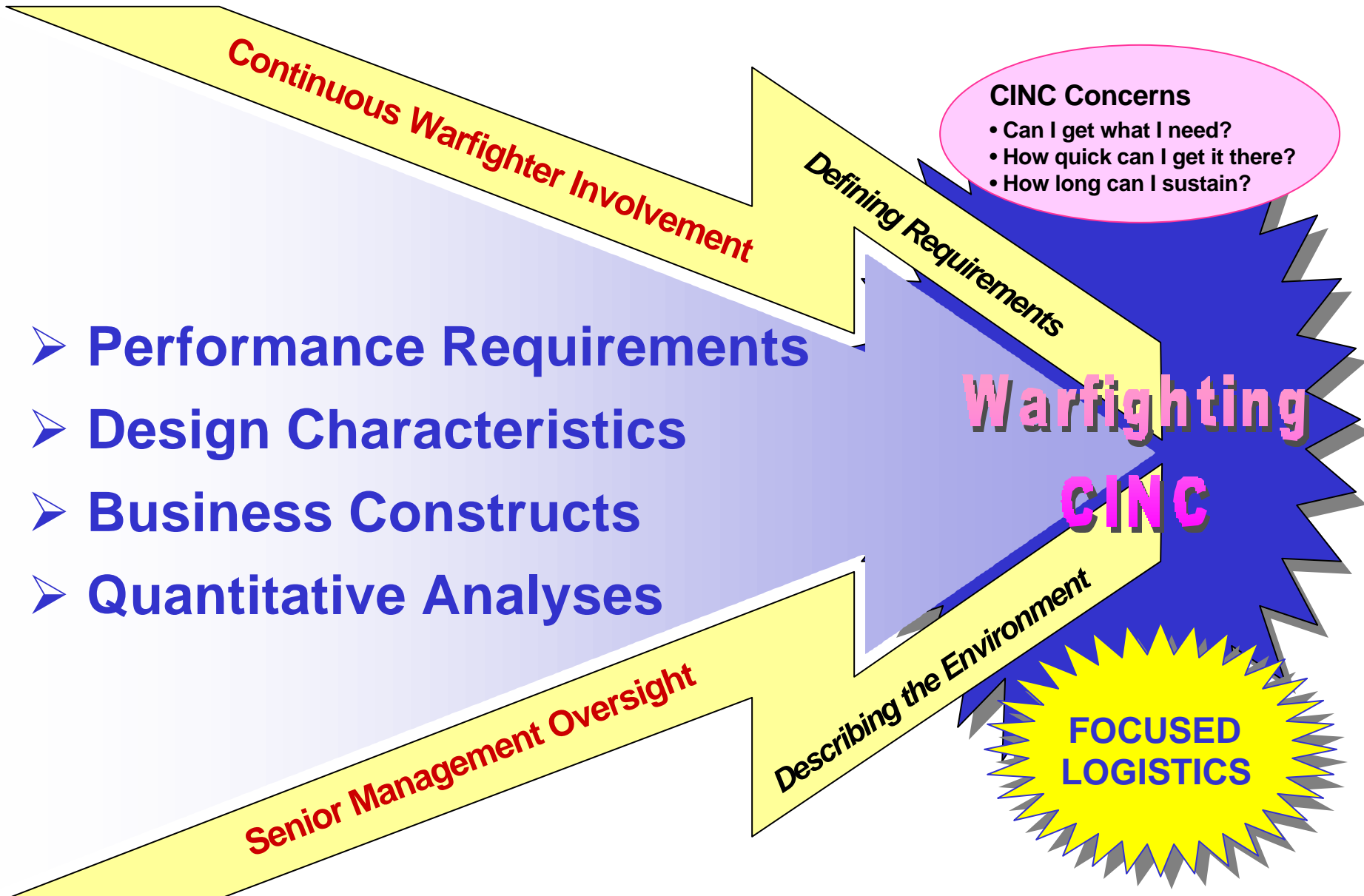
SecDef Remarks (Cont.)

- **DoD must change the way the world has changed**
- **Today's bureaucracy does not allow agility**
- **Encourage cooperation among Service Staffs and Secretariats (GC, LA, PA offices)**
- **Must decide what is “core” and be excellent in that**
- **Structurally different than previous efforts**
 - **President Bush supports**
 - **Performance, not promises**
 - **What you measure improves**

USD(AT&L) Priorities

- **Restore the credibility and effectiveness of the acquisition and logistics support process**
- **Improve the quality and morale of DoD's acquisition workforce**
- **Bolster the strength of the industrial base**
- **Leverage technologies for the long term through greater Science and Technology (S&T) funding**
- **Rationalize weapons programs with the national security strategy**

Future Logistics Environment



Logistics Objectives

- **Procure high reliability systems**
 - Reduce demand
 - Reduce footprint
- **Optimize sustainment chain**
 - To meet performance requirements
- **Establish and maintain accountability in the process**
 - Minimize ‘hand-offs’

Our Challenge

Key Area	Future	Current Performance
Weapon System Readiness	Immediately employable force option (96 hours)	70-80% mission capable rates
Footprint	50% smaller footprint	600,000 deployable logisticians
Deployment	7-14 days rapidly deployable capability	130+ days (MTW)
Distribution	Global distribution capability	Fractionated system with 7+ accountability hand offs
Information Systems	Responsive to joint Warfighter needs	1,000+ systems

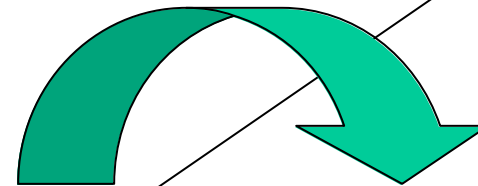
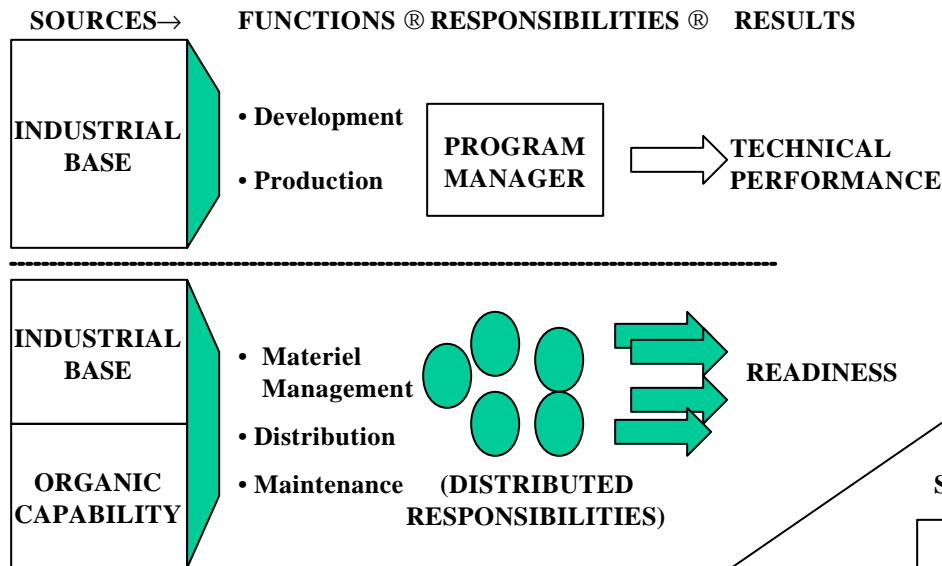
These areas must be addressed based upon a coherent vision/plan and the material needs of our fighting forces and CINCs.

Performance-Based Logistics

- **Program manager is responsible for life cycle sustainment**
 - **PM team manages integrated logistics chain**
 - **DoD sustainment commands foster transparency and interoperability**
- **Performance agreements negotiated with operational customers**
- **PM builds performance agreements with commercial and organic providers**
- **Logistics and financial transactions transparent at the operational level**
- **Outcome performance measured throughout the process**

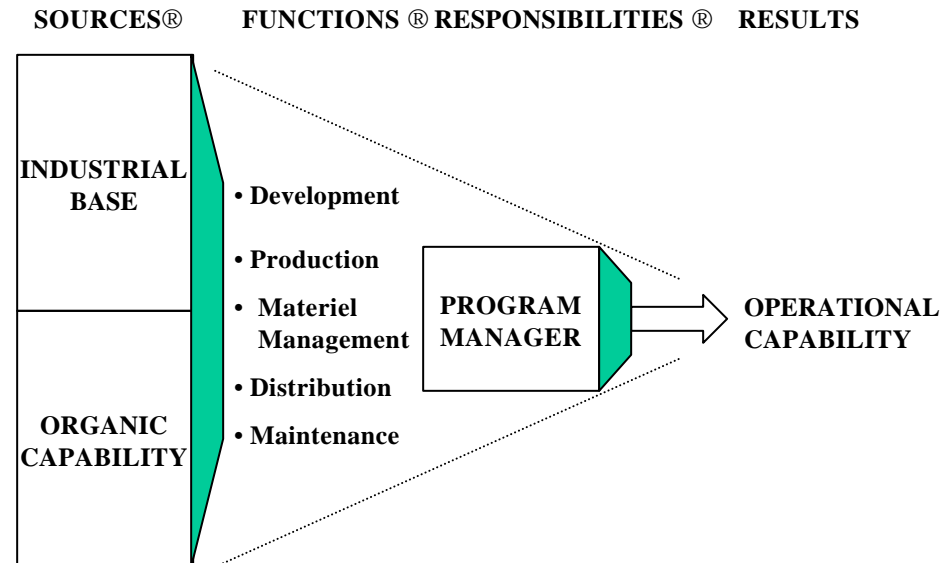
Performance-Based Logistics

Traditional Logistics

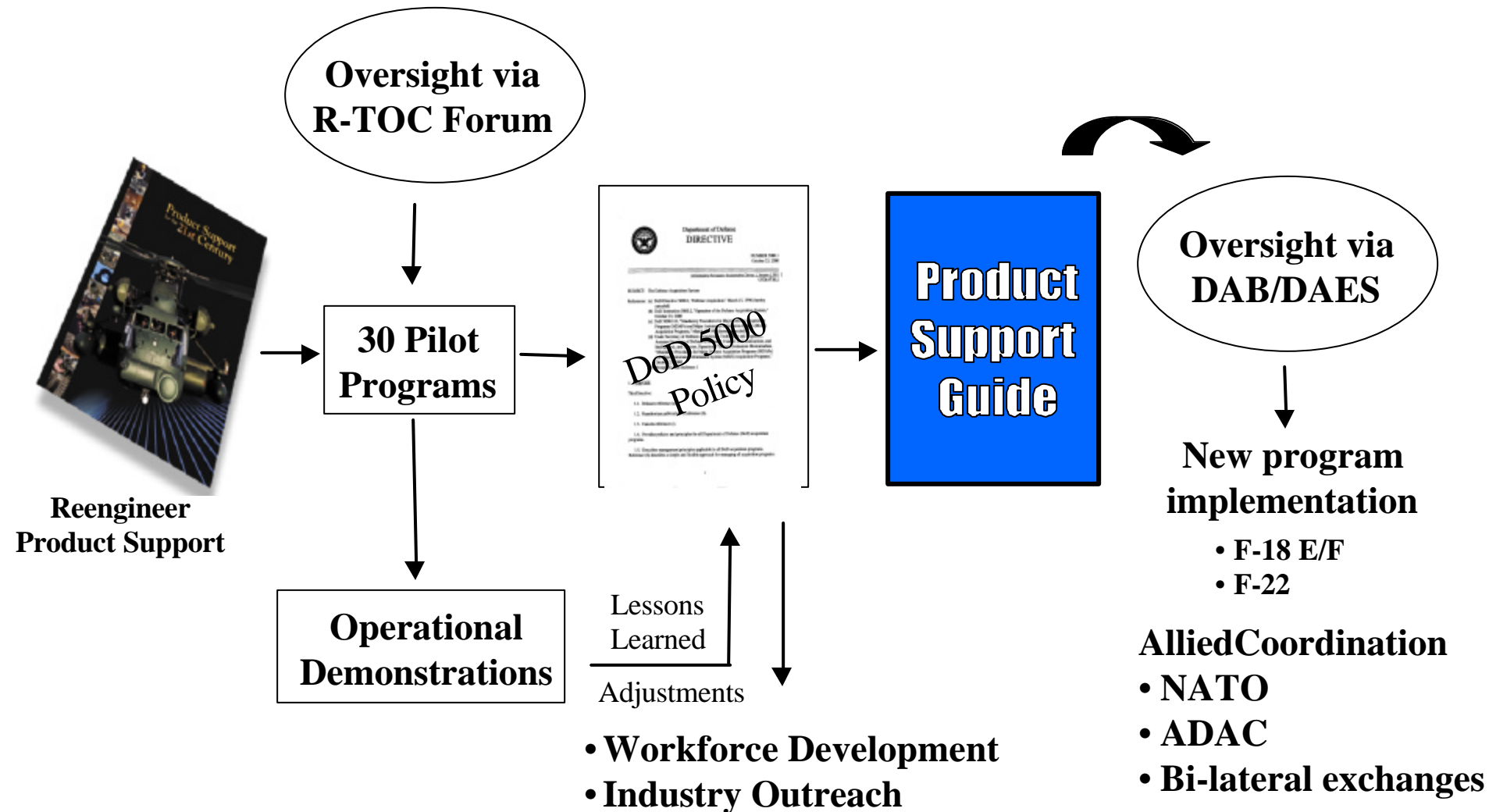


End-State 2020

Performance-Based Logistics



Implementing Performance-Based Logistics

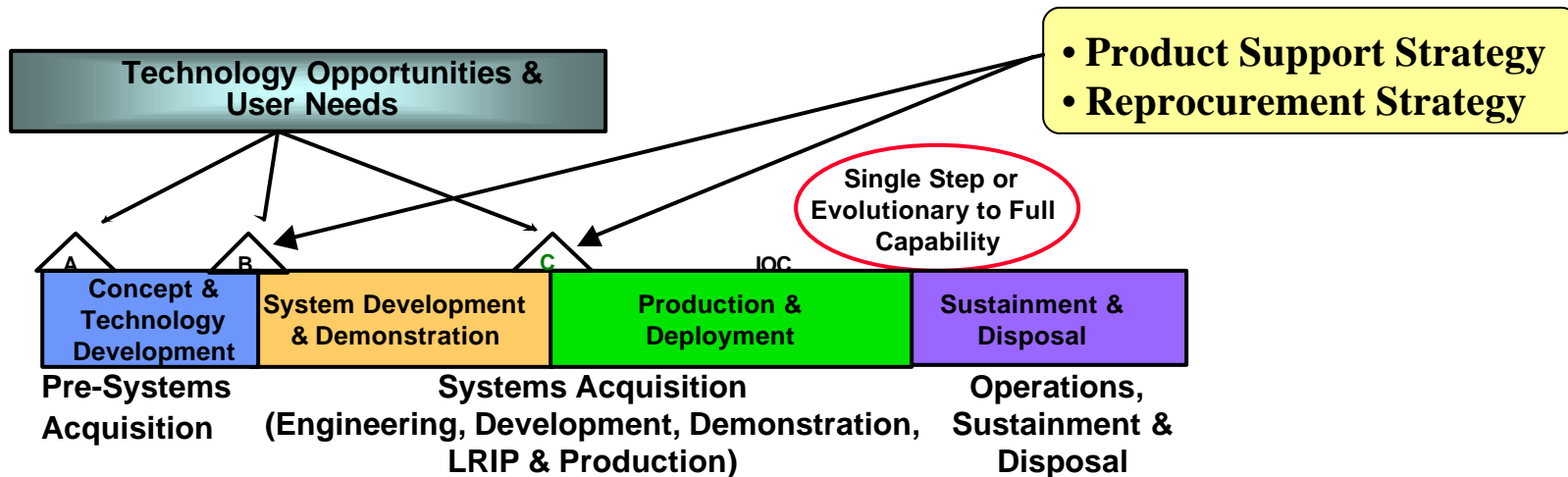


An integrated, disciplined program to achieve near-term implementation.

Product Support Objectives

- **Deployability/Mobility**
 - **Footprint**
 - **Inherent reliability**
 - **Overall Product Support Strategy**
 - **Readiness objectives**
 - **Performance Based Logistics**
 - **Support Integration**
 - **O&S Costs**
- Reduce Demand**

DoD 5000 Acquisition Policy Revision



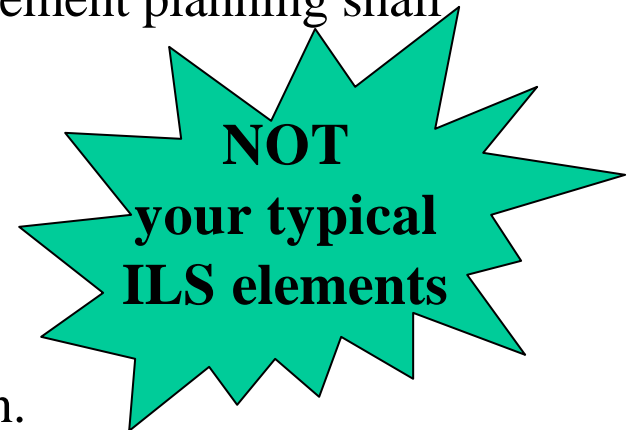
Major Objectives

- Rapid acquisition with demonstrated technology
- Time-phased requirements and evolutionary development
- Integration of acquisition and logistics
- Product support emphasis
- Increased competition

Product Support Strategy

DoD 5000.2-R

- C2.8.3.1. The PM, in coordination with Military Service logistics commands, shall include **planning for full life-cycle product support management** as part of the support strategy documented in the acquisition strategy....As a minimum, product support management planning shall address...the following objectives:
 - Integrated supply chains...
 - Segmented support by system or subsystems
 - Maintain relationship with the warfighter based on system readiness.
 - Select best-value, long-term product support providers and integrators based on competition.
 - Measure support performance based on high-level metrics such as MC rates..
 - Improve product affordability, system reliability ...dedicated investment in technology refreshment.
- C2.8.3.2. The PM may select a **product support integrator** from the DoD or private sector. Activities coordinated by support integrators can include functions provided by organic organizations, private sector providers, or partnerships.



Product Support Strategy

DoD 5000.2-R (proposed update)

Currently in the process of including PBL in the next update to 5000.2R (2.8).

- **C2.8.3. Product Support.** Product support is a package of logistics support functions necessary to maintain the readiness and operational capability of a system or subsystems. *Performance-Based Logistics (PBL) is the preferred approach for product support implementation. PBL utilizes a performance-based acquisition strategy, versus the traditional transaction-based approach. PBL allows PMs to optimize performance and cost objectives through the strategic implementation of varying degrees of Government-Industry partnerships.*

DPG and QDR PBL Guidance

FY 03-07 Defense Planning Guidance

- **(U) Components will program to reduce non-mission critical facility inventories to industry standards by FY 2007. Components will propose plans to reduce overhead costs associated with mission-critical inventories and propose sale/lease-back or other innovative provisions to provide storage or(inter- and intra-theater) mobility. Plans will identify the implementation schedule for applying performance-based logistics to all new weapon systems and Acquisition Category (ACAT) I and II fielded systems by March 1, 2002.**

Quadrennial Defense Review (30 September 2001)

- **Performance-Based Logistics and modern business systems with appropriate metrics can eliminate many non-value-added steps. DoD will implement Performance-Based Logistics to compress supply chain and improve readiness for major weapon systems and commodities**

Logistics Roadmap to 2020

Logistics Resources (TY\$B)

<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
88.2	87.5	89.5	91.3	93.1	95.4

- Force closure 130+ days (MTW)
- 18-day average Customer Wait Time for spares (83 days for 95%)
- 70-80% mission capable rates typical
- 30-year-old processes
- 680,000 logisticians in operational units (AC/RC)
- 1000+ log IT systems - \$3.8B/year
- 15% backordered @ 85 days average
- Emerging public/private integration

Logistics Processes:

- Independent of scenario and capability
- Flexible and agile to respond to an uncertain world

**End-State
2020**

Performance Based Logistics
Industrial Partnering for Consumables
Depot Maintenance
Global Distribution Management
Logistics Situational Awareness

- Immediately employable force option for National Command Authority
- Rapidly deployable capability
- Deployment and sustainment in anti-access environment
- 50% smaller footprint
- Improved in-theater combat support and prepositioning
- Responsive management of support to the joint warfighter
- Incorporation of commercial advances
- Global industrial base for global distribution

Today

2000

2010

2020

Industrial Partnering of Weapon System Sustainment

**Exploiting integrated industrial logistics chains
to optimize equipment readiness**

F/A-18 E/F Integrated Readiness Support Teaming (FIRST)

- *Savings / Cost Avoidances estimated at \$52.4M over five year contract period*
- *Carrier stock effectiveness - 90%*
- *Integrates 125 suppliers, 15,000 items*

F-117 Total System Performance Responsibility (TSPR)

- Support to 49th Fighter Wing rated Excellent
- All performance metrics met or exceeded
- Savings/cost avoidance in FY 99 - \$27.5M
- F-117 withstood test of transition and overseas deployment to 2 combat locations
 - In Kosovo, F-117 flew 1023 sorties with a mission capable rate of 86%

M-1 Abrams R-TOC and Product Support Pilot

- Reduction of total ownership costs of 20% by FY 05
- Potential of \$17B O&S cost reduction over the 30-year remaining life
- Partnership among PM, industry, and Army Materiel Command

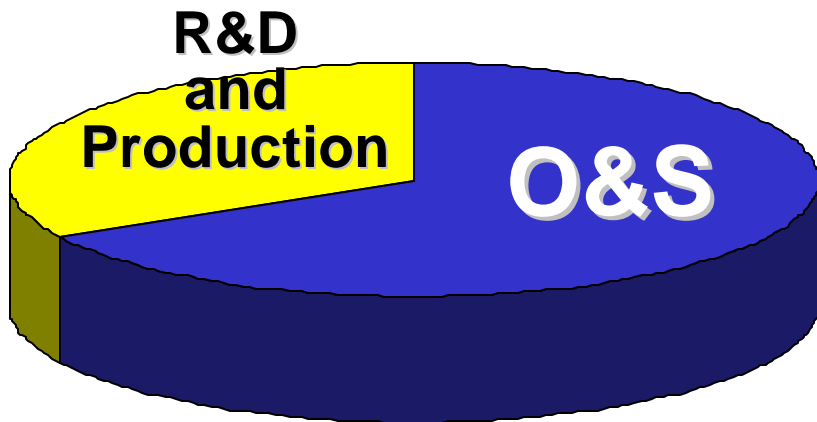
Advanced Amphibious Assault Vehicle (AAAV) Life Cycle Support

- Estimated \$240M Cost Avoidance over life cycle
- Embedded Training
- PM Life Cycle Oversight
- Competitive sourcing

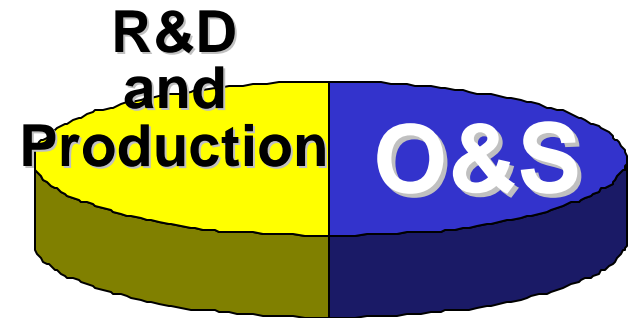
JSF KEY PERFORMANCE PARAMETERS (KPP)

- Interoperability
 - RF Signature
 - Combat Radius
 - Sortie Generation Rate
 - Logistics Footprint
 - Mission Reliability
 - CV Recovery
- STOVL Mission Performance

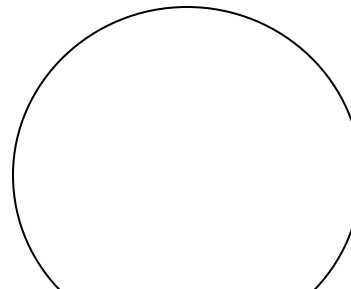
AFFORDABILITY CHALLENGE



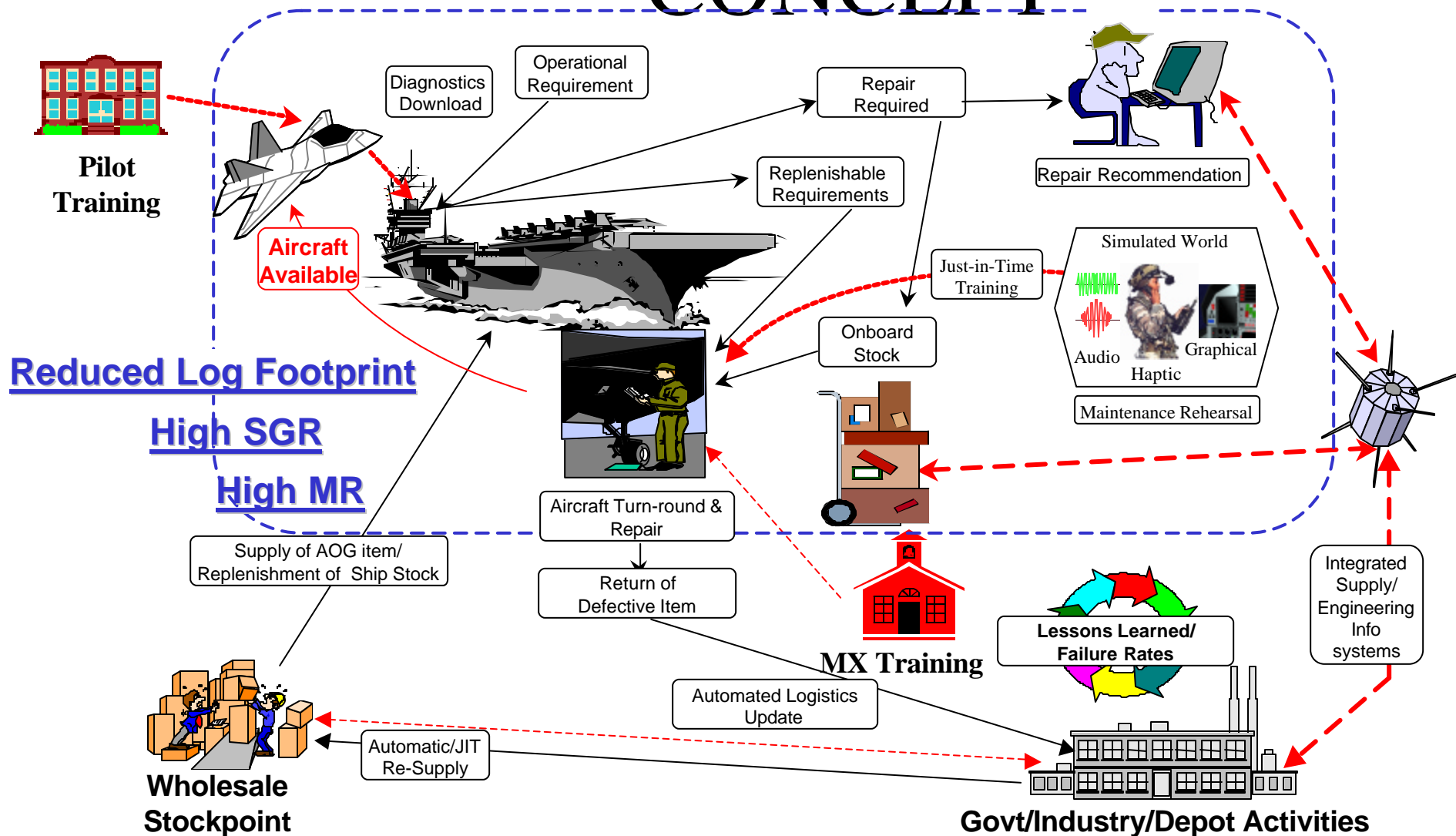
TODAY



JSF



AUTONOMIC LOGISTICS CONCEPT



AUTONOMIC LOGISTICS TECHNOLOGIES

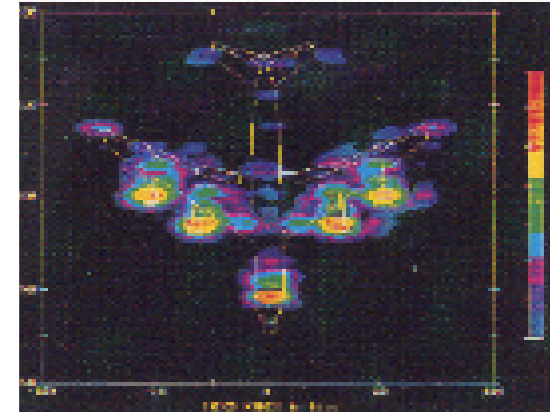
JSF Paintless Aircraft



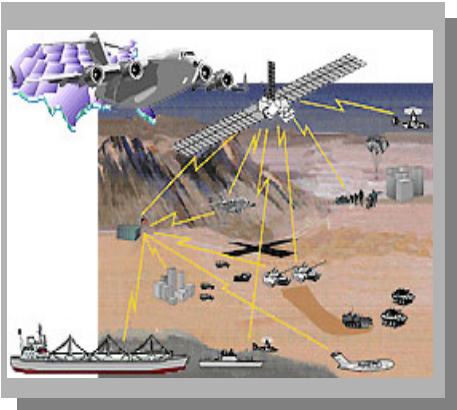
CACE



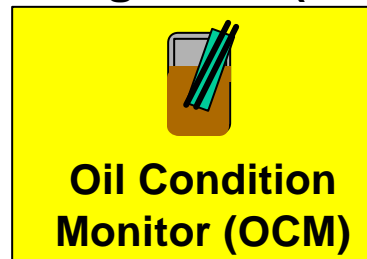
Supportable LO



**Joint Distributed
information system
(JDIS)**



**Prognostics & Health
Management (PHM)**



Reliability & Maintainability



Training



JSF SUMMARY

- Performance Based Logistics Approach
 - Government/Contractor Partnering & Teaming
- Departure From Business As Usual
 - Joint for the Life of the Program, No Lead Service
 - Major Reliability, Maintainability & Supportability Improvements
- Technology Demonstrated and Incorporated
 - PHM, JDIS, SLO
 - Paintless
- Road Ahead as We Enter EMD
 - Develop and Test the Autonomic Logistics System

***Autonomic Logistics will deliver
a fully integrated and tested logistics system
for the Joint Strike Fighter***

Workforce for 21st Century

VISION

A future Acquisition workforce that will be smaller, highly talented and motivated, adaptable, knowledgeable of commercial practices and information technology and able to operate in a dynamic environment.

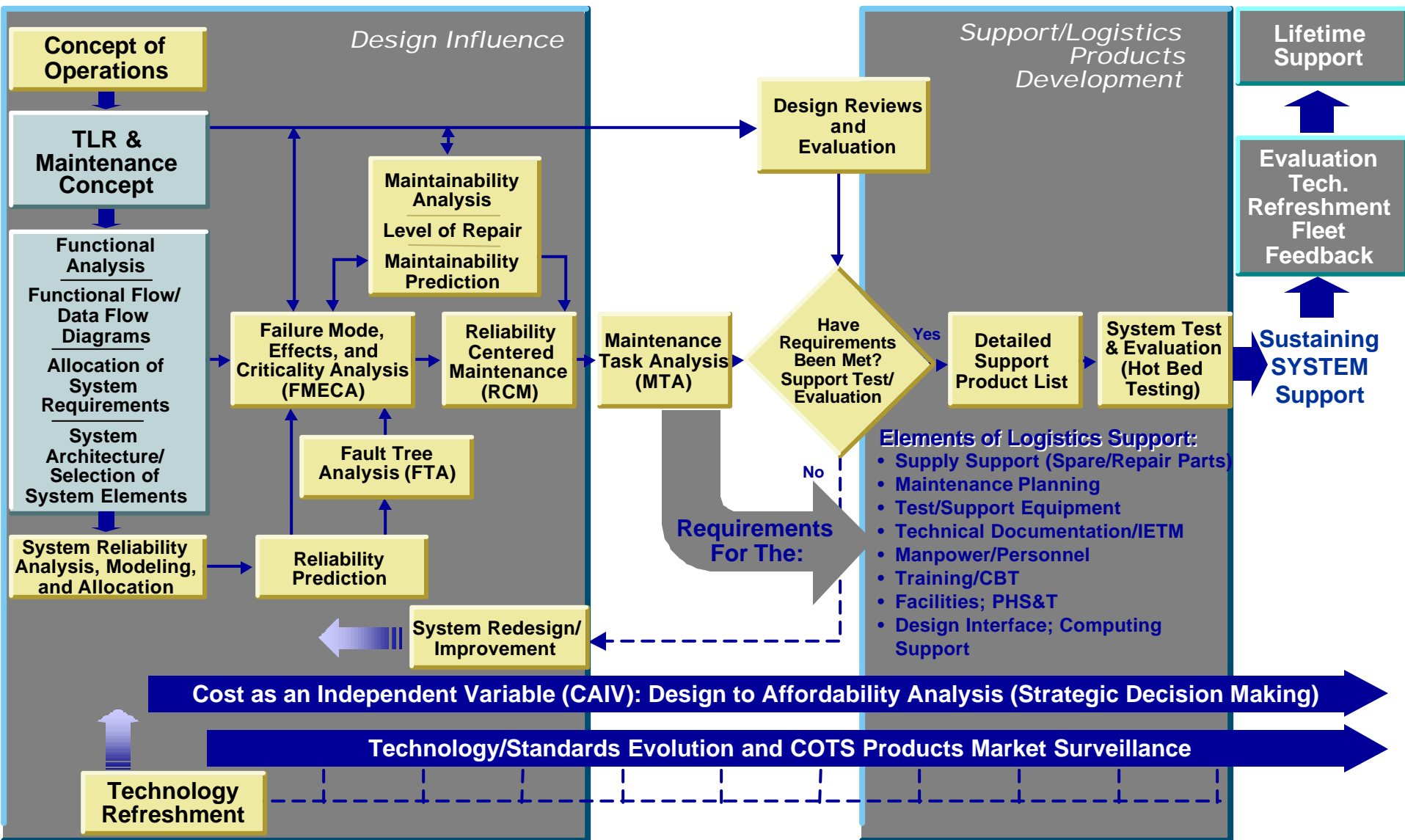
LOGISTICS WORKFORCE CHARACTERISTICS

- **Professional Certification of Acquisition and Sustainment Logisticians**
- **Logisticians with Master's Degrees in Systems Engineering**
- **Life cycle thinkers capable of interplay with other fields**

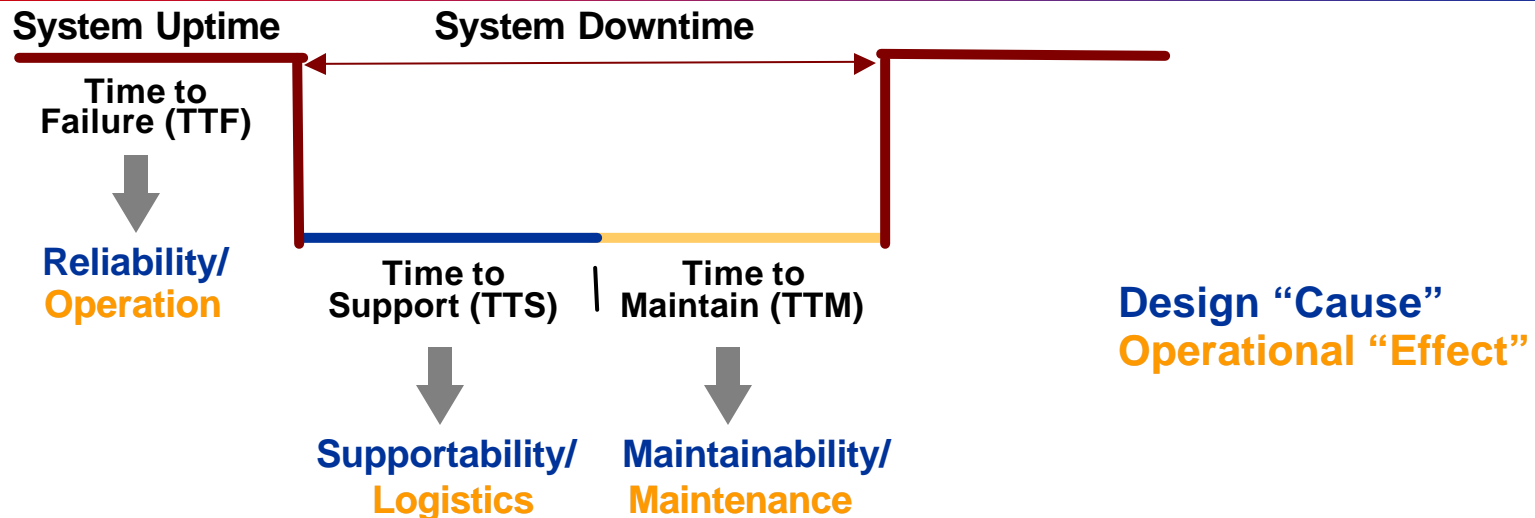
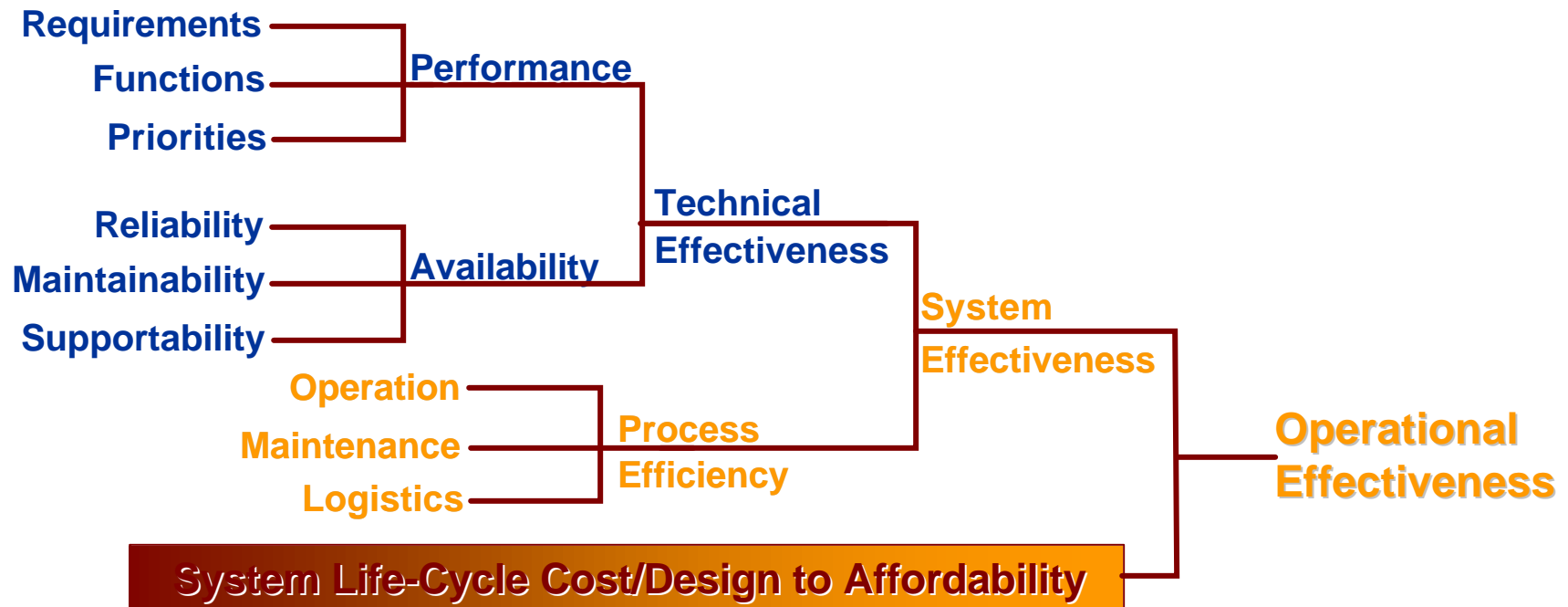


People Are Our Greatest Asset

Systems and Supportability Engineering



System Operational Effectiveness



Conclusion

- **Is logistics transformation/excellence another bumper sticker or the real deal?**
- **Government and Industry must work together to achieve this objective**
 - **Framework has been established**
 - **Performance based products**
 - **Challenge to implement, must be cost effective**
 - **Change is hard, but we owe it to the Warfighters to succeed**